



AWSIM/ACI Version Release Cycles

1Lt Tammy Dunnivant

USAFBTS/DMS

DSN 579-5456

Dunnivant.Tammy@jfacc.hurlburt.af.mil



Introduction



- **Current process**
- **Disadvantages**
- **Proposed process**
- **Advantages**



Current Process



- **No published schedule**
- **UWG prioritization of DR/CRs focus on next exercise**
- **Uncertain version release date**
- **Changes put in official releases without being operationally tested by centers**



Disadvantages

▮ **Uncertainty of release date**

- ▮ Beta Testing difficult to coordinate
- ▮ No planning/coordination for testing

▮ **Backlog of DR/CRs in OT&E status**

- ▮ Many already in a released version, not tested
- ▮ Remain in OT&E status

▮ **Development Cycle**

- ▮ Difficult to plan resources without schedule

▮ **Tying version release to exercise**

- ▮ More exercises, more releases, less testing



Proposed Process



- **Define a schedule**
 - Set a predetermined number of releases
 - Schedule/releases not tied to exercise
- **UWG prioritize according to next release**
- **Developers determine what they can accomplish**



Proposed Process (Cont.)



▮ Test Center receives beta copy and draft VDD and begins testing

- ▮ Only code changes are corrections to deficiencies uncovered in testing
- ▮ If deficiency can't be fixed in time for release, that change is pulled from version

▮ Release approved version and final VDD



Sample Schedule**



			M1					M2					M3					M4					M5					M6
ID	Task Name	Duration	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1	AFSOM Development/Release Cycle	100 days																										
2	UWG Meeting	5 days																										
3	Task Effort Estimation (Projection)	10 days																										
4	CCB	5 days																										
5	CR/DR Decisions	0 days																										
6	Development	45 days																										
7	Developer's Integration Test	15 days																										
8	OT&E Testing	10 days																										
9	Release Completion	10 days																										
10	AFSOM Release	0 days																										

****This is provided *only* as an example. Actual duration, dates, etc. would be worked out in the UWG.**



Advantages

- **Developers know exactly what's needed in how much time**
 - Better allocate resources
- **Established time for operational testing**
 - Plan, coordinate for testing in advance
 - Test reports written to document testing
- **Eliminate OT&E backlog in DR/CR database**
- **Reduce last minute changes prior to exercises**
- **Fewer releases means less time spent producing/updating documentation**



Spiral Development



- **Completely separate process**
- **Response to discrepancies found in spiral development/testing**
 - Routine - submit DR/CR to AFAMS
 - Urgent - submit DR/CR and request action
 - Emergency - submit DR/CR for immediate action

Questions?



Hurlburt Field, Florida